

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
(TEMPORARY FORM)

CONTROL NO. 8574 8574FILE: MONTHLY REPORT FILE

FROM: <u>Carolina Power &amp; Light Co.</u> <u>Raleigh, N.C.</u> <u>E.E. Utley</u>		DATE OF DOC <u>8-13-75</u>	DATE REC'D <u>8-13-75</u>	LTR	TWX <u>xxx</u>	RPT	OTHER
TO: <u>Mr. Donald Knuth</u>		ORIG <u>not signed</u>	CC <u>1</u>	OTHER	SENT AEC PDR <u>xxx</u>		
				SENT LOCAL PDR <u>xxx</u>			
CLASS	UNCLASS <u>xxxxxx</u>	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO: <u>50-261</u>		

## DESCRIPTION:

Ltr trans the following:

*ACRIS... LED*  
*DC NOT REMOVE*

## ENCLOSURES:

Monthly Report for July, 1975  
Plant & Component Operability & Availability  
This Report to be used in preparing Gray Book  
by Plans & Operations.

NUMBER OF COPIES REC'D: 1

## PLANT NAME:

H.B. Robinson #2

## FOR ACTION/INFORMATION

8-14-75 JGB

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## INTERNAL DISTRIBUTION

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GIAMBUSSO	SHAO	SPANGLER	J. LEE (L)	PLANS
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GT

TO Docket  
Not 8/13  
3:15

**CP&L**

Carolina Power & Light Company

Raleigh, N. C. 27602

**COPY**

Aug. 11 1975

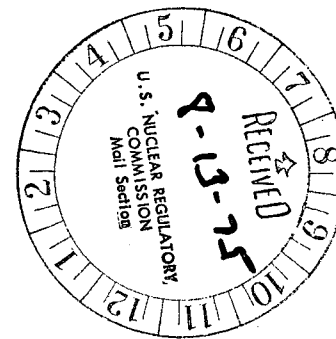
Regulatory

File Cy.

File: NC-3513 (R)

Serial: NC-75-1104

Mr. Donald Knuth, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555



Dear Mr. Knuth:

**H. B. ROBINSON UNIT NO. 2  
LICENSE NO. DPR-23  
MONTHLY OPERATING DATA REPORTS**

Enclosed please find the H. B. Robinson Unit No. 2 Operating Data Report. This report is for the month of June 1975.

Yours very truly,

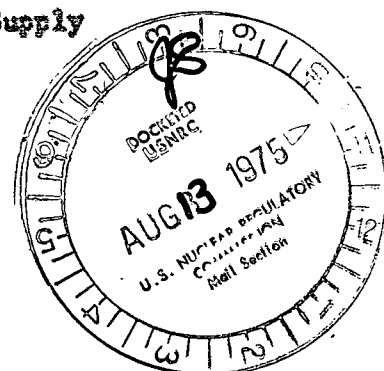
*[Handwritten signature]*

**E. E. Utley  
Vice-President  
Balk Power Supply**

DBW:bn

Enclosure

- CC: Messrs. H. B. Beasac  
J. L. Harnead  
P. W. Hoon  
R. E. Jones  
J. B. McCirt  
W. C. Moseley  
D. B. Waters



8574

# APPENDIX C

DOCKET NO. DFR-23

UNIT E. B. Robinson Two

DATE 8/6/75

COMPLETED BY H. L. Watford

## AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1975

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	667
2	667
3	670
4	671
5	668
6	657
7	670
8	670
9	671
10	670
11	403
12	0
13	0
14	292
15	664
16	667

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	671
18	675
19	676
20	661
21	675
22	676
23	674
24	674
25	671
26	667
27	643
28	665
29	662
30	664
31	662

Average Daily MWe - net may exceed 665 -  
MWe - net due to impoundment temperature.

### DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

On this form, list the average daily unit power level in MWe-net for each day in the reporting month. Compute to the nearest whole megawatt.

These figures will be used to plot a graph for each reporting month. Note that by using maximum dependable capacity for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

# APPENDIX C

DOCKET NO. DPR-23

UNIT H. B. Robinson Two

DATE 8/6/75

COMPLETED BY H. L. Votford

## AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1975

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

1	667
2	667
3	670
4	671
5	668
6	657
7	670
8	670
9	671
10	670
11	401
12	0
13	0
14	292
15	664
16	667

DAY AVERAGE DAILY POWER LEVEL  
(MWe-net)

17	671
18	675
19	676
20	661
21	675
22	676
23	674
24	674
25	671
26	667
27	643
28	655
29	662
30	664
31	662

Average Daily MWe - net may exceed 665 -  
MWe - net due to impoundment temperature.

### DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

On this form, list the average daily unit power level in MWe-net for each day in the reporting month. Compute to the nearest whole megawatt.

These figures will be used to plot a graph for each reporting month. Note that by using maximum dependable capacity for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

# APPENDIX D

UNIT H. B. Robinson

DATE 8/6/75

COMPLETED BY M. L. Watford

DOCKET NO. DPR-23

## OPERATING STATUS

1. REPORTING PERIOD 0000,750701 THROUGH 2400,0731  
 HOURS IN REPORTING PERIOD: 744  
 2. CURRENTLY AUTHORIZED POWER LEVEL (MWH) 2200 MAX. DEPENDABLE CAPACITY (MWH-NET) 665  
 3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWH-NET): None  
 4. REASONS FOR RESTRICTION (IF ANY): None

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL	678.71	3,771.86	29,263.29
6. REACTOR RESERVE SHUTDOWN HOURS	0	81.8	213.08
7. HOURS GENERATOR ON LINE	676.61	3,740.03	28,667.61
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	1,476,710	8,059,287	58,592,067
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	472,300	2,634,085	19,133,519
11. NET ELECTRICAL ENERGY GENERATED (MWH)	448,581	2,500,200	18,144,928
12. REACTOR AVAILABILITY FACTOR (1)	91.22	74.15	75.72
13. UNIT AVAILABILITY FACTOR (2)	93.95	73.52	72.18
14. UNIT CAPACITY FACTOR (3)	90.67	73.91	70.61
15. UNIT FORCED OUTAGE RATE (4)	9.03	18.08	18.60

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):  
Refueling Outage, November, 4 weeks

17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: On Line

18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	-	-
INITIAL ELECTRICAL POWER GENERATION	-	-
COMMERCIAL OPERATION	-	-

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$   
 (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$   
 (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWH-NET)} \times \text{HOURS IN REPORTING PERIOD}}$   
 (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

# APPENDIX D

UNIT H. B. Robinson Two  
 DATE 10-3-75  
 COMPLETED BY M. L. Watford  
 DOCKET NO. DPK-23

## OPERATING STATUS

1. REPORTING PERIOD: 0000.750901 THROUGH 2400.0930  
 HOURS IN REPORTING PERIOD: 720  
 2. CURRENTLY AUTHORIZED POWER LEVEL (MWE): 2200 MAX. DEPENDABLE CAPACITY (MWE-NET): 685  
 3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWE-NET): None  
 4. REASONS FOR RESTRICTION (IF ANY): None

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL	<u>597.23</u>	<u>5212.07</u>	<u>30703.50</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>1.22</u>	<u>82.04</u>	<u>215.32</u>
7. HOURS GENERATOR ON LINE	<u>624.68</u>	<u>5177.04</u>	<u>30304.85</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1,493.923</u>	<u>11,170.104</u>	<u>61,702.884</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>474.538</u>	<u>3,617.735</u>	<u>20,117.169</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>461.013</u>	<u>3,435.692</u>	<u>19,080.420</u>
12. REACTOR AVAILABILITY FACTOR (1)	<u>96.81</u>	<u>79.56</u>	<u>76.55</u>
13. UNIT AVAILABILITY FACTOR (2)	<u>95.17</u>	<u>79.03</u>	<u>75.06</u>
14. UNIT CAPACITY FACTOR (3)	<u>94.20</u>	<u>78.37</u>	<u>71.54</u>
15. UNIT FORCED OUTAGE RATE (4)	<u>3.53</u>	<u>14.14</u>	<u>17.93</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): <u>Refueling - November - Six (6) Weeks</u>			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP		<u>On line</u>	
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:			

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	<u>-</u>	<u>-</u>
INITIAL ELECTRICAL POWER GENERATION	<u>-</u>	<u>-</u>
COMMERCIAL OPERATION	<u>-</u>	<u>-</u>

- (1) REACTOR AVAILABILITY FACTOR =  $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$   
 (2) UNIT AVAILABILITY FACTOR =  $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$   
 (3) UNIT CAPACITY FACTOR =  $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWE-NET)} \times \text{HOURS IN REPORTING PERIOD}}$   
 (4) UNIT FORCED OUTAGE RATE =  $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

1.16-D-1

APPENDIX E  
UNIT SHUTDOWNS

DOCKET NO. DPR-23  
UNIT NAME H. B. Robinson  
DATE 10-3-75  
COMPLETED BY M. L. Watford

REPORT MONTH September, 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	9/2/75	F	2.03	A	3	Turbine Trip due to high steam generator level caused by loss of both heater drain pumps due to malfunction of drain pump discharge valve.
2	9/21/75	F	21.42	A	2	Red Control Failure - Urgent failure due to defective fuse in power supply to red control cabinet 1-AC. Extension of outage was also caused by failure of source range R-32, due to failed detector and pump.

116E-1

- (1) REASON (2) METHOD
- |  |               |
|--|---------------|
| A - EQUIPMENT FAILURE (EXPLAIN)                  | 1 - MANUAL    |
| B - MAINT. OR TEST                               | 2 - MANUAL    |
| C - REFUELING                                    | 3 - SCRAM     |
| D - REGULATORY RESTRICTION                       | 4 - AUTOMATIC |
| E - OPERATOR TRAINING AND<br>INQUIRY EXAMINATION | 5 - SCRAM     |
| F - ADMINISTRATIVE                               |               |
| G - OPERATIONAL ERROR<br>(EXPLAIN)               |               |
| H - OTHER (EXPLAIN)                              |               |

SUMMARY:

The unit was on the line for 694.58 hours during the month with a capacity factor of 94.20%. The unit experienced two trips during the month with a forced outage rate of 3.53%.

**APPENDIX E  
UNIT SHUTDOWNS**

DOCKET NO. DPR-23  
UNIT NAME K. E. Robinson Two  
DATE 8/6/75  
COMPLETED BY M. L. Watford

REPORT MONTH July, 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	7/11/75	F	67.36	A	1	Control Rod L-5 Failure

(1) REASON  
A-EQUIPMENT FAILURE (EXPLAIN)  
B-MAINT. OR TEST  
C-RELOADING  
D-REGULATORY RESTRICTION  
E-OPERATOR TRAINING AND  
LICENSE EXAMINATION  
F-ADMINISTRATIVE  
G-OPERATIONAL ERROR  
(EXPLAIN)  
H-OTHER (EXPLAIN)

(2) METHOD  
1-MANUAL  
2-MANUAL  
SCRAM  
3-AUTOMATIC  
SCRAM

SUMMARY:

11581



**APPENDIX E  
UNIT SHUTDOWNS**

DOCKET NO. DPR-23  
 UNIT NAME H. B. Robinson Two  
 DATE 8/6/75  
 COMPLETED BY M. L. Watford

REPORT MONTH July, 1975

NO.	DATE	TYPE P-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	7/11/75	P	67.36	A	1	Control Rod L-5 Failure

(1) REASON  
 A-EQUIPMENT FAILURE (EXPLAIN)  
 B-MAINT. OR TEST  
 C-REFUELING  
 D-REGULATORY RESTRICTION  
 E-OPERATOR TRAINING AND  
 LICENSE EXAMINATION  
 F-ADMINISTRATIVE  
 G-OPERATIONAL ERROR  
 (EXPLAIN)  
 H-OTHER (EXPLAIN)

(2) METHOD  
 1-MANUAL  
 2-MANUAL  
 SCRAM  
 3-AUTOMATIC  
 SCRAM

SUMMARY:

11551